## Supplement

Effect of remdesivir post hospitalization for COVID-19 infection from the randomized SOLIDARITY Finland trial

**Supplementary Table 1**. EQ-5D-5L responses in long-term follow-up of patients who received remdesivir in the acute phase of COVID-19 infection (pages 2-3)

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Code (page 9)

| Supplementary Table 1. EQ-5D-5L responses in long-term follow-up of       |             |           |            |  |
|---|-------------|-----------|------------|--|
| patients who received remdesivir in the acute phase of COVID-19 infection |             |           |            |  |
|   | Remdesivir, | SoC,      | Both,      |  |
|   | n=98 (%)    | n=83 (%)  | n=181 (%)  |  |
| Mobility  |             |           |            |  |
| 1) No problems  | 58 (59.2)   | 56 (67.5) | 114 (63)   |  |
| 2) Slight problems  | 23 (23.5)   | 13 (15.7) | 36 (19.9)  |  |
| 3) Moderate problems  | 10 (10.2)   | 8 (9.6)   | 18 (9.9)   |  |
| 4) Severe problems  | 5 (5.1)     | 6 (7.2)   | 11 (6.1)   |  |
| 5) Unable to walk   | 2 (2.0)     | 0         | 2 (1.1)    |  |
| Self-care   |             |           |            |  |
| 1) No problems  | 89 (90.8)   | 73 (88.0) | 162 (89.5) |  |
| 2) Slight problems  | 6 (6.1)     | 5 (6.0)   | 11 (6.1)   |  |
| 3) Moderate problems  | 0           | 4 (4.8)   | 4 (2.2)    |  |
| 4) Severe problems  | 2 (2.0)     | 1 (1.2)   | 3 (1.7)    |  |
| 5) Unable to wash or dress  | 1 (1.0)     | 0         | 1 (0.6)    |  |
| Usual activities  |             |           |            |  |
| 1) No problems  | 66 (67.3)   | 57 (68.7  | 123 (68.0) |  |
| 2) Slight problems  | 22 (22.4)   | 14 (16.9) | 36 (19.9)  |  |
| 3) Moderate problems  | 6 (6.1)     | 6 (7.2)   | 12 (6.6)   |  |
| 4) Severe problems  | 4 (4.1)     | 6 (7.2)   | 10 (5.5)   |  |
| 5) Unable to do usual activities  | 0           | 0         | 0          |  |
| Pain / discomfort   |             |           |            |  |
| 1) No pain  | 48 (49)     | 35 (42.2) | 83 (45.9)  |  |
| 2) Slight pain  | 35 (35.7)   | 33 (39.8) | 68 (37.6)  |  |
| 3) Moderate pain  | 11 (11.2)   | 11 (13.3) | 22 (12.2)  |  |
| 4) Severe pain  | 2 (2.0)     | 3 (3.6)   | 5 (2.8)    |  |
| 5) Extreme pain   | 2 (2.0)     | 1 (1.2)   | 3 (1.7)    |  |
| Anxiety / depression  |             |           |            |  |
| 1) No   | 65 (66.3)   | 57 (68.7) | 122 (67.4) |  |
| 2) Slight   | 24 (24.5)   | 20 (24.1) | 44 (24.3)  |  |
| 3) Moderate   | 7 (7.1)     | 3 (3.6)   | 10 (5.5)   |  |

| 4) Severe  | 1 (1.0) | 3 (3.6) | 4 (2.2) |
|------------|---------|---------|---------|
| 5) Extreme | 1 (1.0) | 0       | 1 (0.6) |

- EQ-5D, mobility: One patient reported both 3-4 and was classified as 4. One patient reported both 1-2 and was classified as 2.
- EQ-5D, self-care: One patient reported both 3-4 and was treated as 4.
- EQ-5D, pain: One patient reported both 1-2 and was classified as 2.

| <b>Supplementary Table 2</b> . Dichotomized EQ-5D-5L responses as analysed |             |           |            |  |
|--|-------------|-----------|------------|--|
|  | Remdesivir, | SoC,      | Both,      |  |
|  | n=98 (%)    | n=83 (%)  | n=181 (%)  |  |
| Mobility   |             |           |            |  |
| Outcomes 1-2   | 81 (82.7)   | 69 (83.1) | 150 (82.9) |  |
| Outcomes 3-5   | 17 (17.3)   | 14 (16.9) | 31 (17.1)  |  |
| Self-care  |             |           |            |  |
| Outcomes 1-2   | 95 (96.9)   | 78 (94)   | 173 (95.6) |  |
| Outcomes 3-5   | 3 (3.1)     | 5 (6.0)   | 8 (4.4)    |  |
| Usual activities   |             |           |            |  |
| Outcomes 1-2   | 88 (89.7)   | 71 (85.5) | 159 (87.8) |  |
| Outcomes 3-5   | 10 (10.2)   | 12 (14.5) | 22 (12.2)  |  |
| Pain /discomfort   |             |           |            |  |
| Outcomes 1-2   | 83 (84.7)   | 68 (81.9) | 151 (83.4) |  |
| Outcomes 3-5   | 15 (15.3)   | 15 (18.1) | 30 (16.6)  |  |
| Anxiety /depression  |             |           |            |  |
| Outcomes 1-2   | 89 (90.8)   | 77 (92.8) | 166 (91.7) |  |
| Outcomes 3-5   | 9 (9.1)     | 6 (7.2)   | 15 (8.3)   |  |

| Supplementary Table 3. Symptoms after one year of hospitalization between treatment arms |            |             |             |             |
|--|------------|-------------|-------------|-------------|
|  | No symptom | Mild        | Moderate    | Severe      |
|  | (0)        | symptom (1) | symptom (2) | symptom (3) |
| Temperature  |            |             |             |             |
| - Remdesivir, n (%)  | 91 (92.9)  | 7 (7.1)     | 0           | 0           |
| - Standard of care, n (%)  | 77 (92.8)  | 6 (7.2)     | 0           | 0           |
| - Total, n (%)   | 168 (92.8) | 13 (7.2)    | 0           | 0           |
| Fatigue  |            |             |             |             |
| - Remdesivir, n (%)  | 42 (42.9)  | 32 (32.7)   | 17 (17.3)   | 7 (7.1)     |
| - Standard of care, n (%)  | 37 (44.6)  | 23 (27.7)   | 13 (15.7)   | 10 (12.0)   |
| - Total, n (%)   | 79 (43.6)  | 55 (30.4)   | 30 (16.6)   | 17 (9.4)    |
| Problems with attention and  |            |             |             |             |
| concentration  |            |             |             |             |
| - Remdesivir, n (%)  | 50 (51)    | 30 (30.6)   | 8 (8.2)     | 10 (10.2)   |
| - Standard of care, n (%)  | 47 (56.6)  | 21 (25.3)   | 9 (10.8)    | 6 (7.2)     |
| - Total, n (%)   | 97 (53.6)  | 51 (28.2)   | 17 (9.4)    | 16 (8.8)    |
| Memory difficulties and forgetting things  |            |             |             |             |
| - Remdesivir, n (%)  | 45 (45.9)  | 32 (32.7)   | 13 (13.3)   | 8 (8.2)     |
| - Standard of care, n (%)  | 41 (49.4)  | 28 (33.7)   | 11 (13.3)   | 3 (3.6)     |
| - Total, n (%)   | 86 (47.5)  | 60 (33.1)   | 24 (13.3)   | 11 (6.1)    |
| Difficulty sleeping or falling asleep  |            |             |             |             |
| - Remdesivir, n (%)  | 52 (53.1)  | 32 (32.7)   | 6 (6.1)     | 8 (8.2)     |
| - Standard of care, n (%)  | 53 (63.9)  | 14 (16.9)   | 11 (13.3)   | 5 (6.0)     |
| - Total, n (%)   | 105 (58.0) | 46 (25.4)   | 17 (9.4)    | 13 (7.2)    |
| Depression, low spirits  |            |             |             |             |
| - Remdesivir, n (%)  | 66 (67.3)  | 20 (20.4)   | 9 (9.2)     | 3 (3.1)     |
| - Standard of care, n (%)  | 50 (60.2)  | 22 (26.5)   | 6 (7.2)     | 5 (6.0)     |
| - Total, n (%)   | 116 (64.1) | 42 (23.2)   | 15 (8.3)    | 8 (4.4)     |
| Mental anxiety, nervousness  |            |             |             |             |
| - Remdesivir, n (%)  | 65 (66.3)  | 21 (21.4)   | 9 (9.2)     | 3 (3.1)     |
| - Standard of care, n (%)  | 59 (71.1)  | 13 (15.7)   | 7 (8.4)     | 4 (4.8)     |
| - Total, n (%)   | 124 (68.5) | 34 (18.8)   | 16 (8.8)    | 7 (3.9)     |

| Dizziness, balance problems                        |            |           |          |         |
|--|------------|-----------|----------|---------|
| - Remdesivir, n (%)                                | 70 (71.4)  | 21 (21.4) | 5 (5.1)  | 2 (2.0) |
| - Standard of care, n (%)                          | 57 (68.7)  | 20 (24.1) | 0        | 6 (7.2) |
| - Total, n (%)                                     | 127 (70.2) | 41 (22.7) | 5 (2.8)  | 8 (4.4) |
| Headache   |            |           |          |         |
| - Remdesivir, n (%)                                | 70 (71.4)  | 20 (20.4) | 5 (5.1)  | 3 (3.1) |
| - Standard of care, n (%)                          | 60 (72.3)  | 14 (16.9) | 9 (10.8) | 0       |
| - Total, n (%)                                     | 130 (71.8) | 34 (18.8) | 14 (7.7) | 3 (1.7) |
| Tinnitus   |            |           |          |         |
| - Remdesivir, n (%)                                | 72 (73.5)  | 15 (15.3) | 7 (7.1)  | 3 (3.1) |
| - Standard of care, n (%)                          | 59 (71.1)  | 19 (22.9) | 4 (4.8)  | 1 (1.2) |
| - Total, n (%)                                     | 131 (72.4) | 34 (18.8) | 11 (6.1) | 4 (2.2) |
| <sup>a</sup> Skin sensation disorders and tingling |            |           |          |         |
| - Remdesivir, n (%)                                | 70 (71.4)  | 18 (18.4) | 5 (5.1)  | 5 (5.1) |
| - Standard of care, n (%)                          | 61 (73.5)  | 17 (20.5) | 5 (6.0)  | 0       |
| - Total, n (%)                                     | 131 (72.4) | 35 (19.3) | 10 (5.5) | 5 (2.8) |
| Change in the sense of smell and/or taste          |            |           |          |         |
| - Remdesivir, n (%)                                | 76 (77.6)  | 13 (13.3) | 6 (6.1)  | 3 (3.1) |
| - Standard of care, n (%)                          | 63 (75.9)  | 16 (19.3) | 3 (3.6)  | 1 (1.2) |
| - Total, n (%)                                     | 139 (76.8) | 29 (16.0) | 9 (5.0)  | 4 (2.2) |
| Prolonged general malaise following                |            |           |          |         |
| even light exertion                                |            |           |          |         |
| - Remdesivir, n (%)                                | 79 (80.6)  | 14 (14.3) | 3 (3.1)  | 2 (2.0) |
| - Standard of care, n (%)                          | 63 (75.9)  | 9 (10.8)  | 8 (9.6)  | 3 (3.6) |
| - Total  | 142 (78.5) | 23 (12.7) | 11 (6.1) | 5 (2.8) |
| Cardiac arrhythmias or increased resting           |            |           |          |         |
| heart rate   |            |           |          |         |
| - Remdesivir, n (%)                                | 66 (67.3)  | 24 (24.5) | 6 (6.1)  | 2 (2.0) |
| - Standard of care, n (%)                          | 57 (68.7)  | 16 (19.3) | 7 (8.4)  | 3 (3.6) |
| - Total, n (%)                                     | 123 (68.0) | 40 (22.1) | 13 (7.2) | 5 (2.8) |
| A feeling of pressure or discomfort in the         |            |           |          |         |
| chest  |            |           |          |         |
| - Remdesivir, n (%)                                | 69 (70.4)  | 23 (23.5) | 4 (4.1)  | 2 (2.0) |

| - Standard of care, n (%)           | 66 (79.5)  | 10 (12.0) | 5 (6.0)   | 2 (2.4) |
|-------------------------------------|------------|-----------|-----------|---------|
| - Total                             | 135 (74.6) | 33 (18.2) | 9 (5.0)   | 4 (2.2) |
| Nausea, queasiness                  |            |           |           |         |
| - Remdesivir, n (%)                 | 85 (86.7)  | 11 (11.2) | 2 (2.0)   | 0       |
| - Standard of care, n (%)           | 72 (86.7)  | 10 (12.0) | 1 (1.2)   | 0       |
| - Total, n (%)                      | 157 (86.7) | 21 (11.6) | 3 (1.7)   | 0       |
| Rash                                |            |           |           |         |
| - Remdesivir, n (%)                 | 82 (83.7)  | 13 (13.3) | 2 (2.0)   | 1 (1.)  |
| - Standard of care, n (%)           | 57 (68.7)  | 21 (25.3) | 4 (4.8)   | 1 (1.2) |
| - Total, n (%)                      | 139 (76.8) | 34 (18.8) | 6 (3.3)   | 2 (1.1) |
| Joint pain                          |            |           |           |         |
| - Remdesivir, n (%)                 | 55 (56.1)  | 20 (20.4) | 18 (18.4) | 5 (5.1) |
| - Standard of care, n (%)           | 45 (54.2)  | 21 (25.3) | 14 (16.9) | 3 (3.6) |
| - Total                             | 100 (55.2) | 41 (22.7) | 32 (17.7) | 8 (4.4) |
| Muscle pain                         |            |           |           |         |
| - Remdesivir, n (%)                 | 60 (61.2)  | 27 (27.6) | 8 (8.2)   | 3 (3.1) |
| - Standard of care, n (%)           | 48 (57.8)  | 22 (26.5) | 12 (14.5) | 1 (1.2) |
| - Total, n (%)                      | 181 (59.7) | 49 (27.1) | 20 (11.0) | 4 (2.2) |
| Persistent weekly cough             |            |           |           |         |
| - Remdesivir, n (%)                 | 72 (73.5)  | 13 (13.3) | 12 (12.2) | 1 (1.0) |
| - Standard of care, n (%)           | 62 (74.7)  | 9 (10.8)  | 9 (10.8)  | 3 (3.6) |
| - Total, n (%)                      | 134 (74.0) | 22 (12.2) | 21 (11.6) | 4 (2.2) |
| Persistent weekly respiratory mucus |            |           |           |         |
| - Remdesivir, n (%)                 | 68 (69.4)  | 8 (8.2)   | 20 (20.4) | 2 (2.0) |
| - Standard of care, n (%)           | 51 (61.4)  | 16 (19.3) | 13 (15.7) | 3 (3.6) |
| - Total, n (%)                      | 119 (65.7) | 24 (13.3) | 33 (18.2) | 5 (2.8) |

**Supplementary Table 4**. The effect of remdesivir plus standard of care compared to standard of care only on self-reported symptoms after one year from hospitalization due to COVID-19 infection

|   | Unadjusted | 95% confidence |
|---|------------|----------------|
|   | odds ratio | interval       |
| Temperature   | NA         | NA             |
| Problems with attention and concentration               | 1.02       | 0.55-1.89      |
| Memory difficulties and forgetting things               | 1.27       | 0.69-2.34      |
| Difficulty sleeping or falling asleep                   | 0.74       | 0.39-1.43      |
| Depression, low spirits                                 | 0.92       | 0.43-1.98      |
| Mental anxiety, nervousness                             | 0.92       | 0.43-1.98      |
| Dizziness, balance problems                             | 0.99       | 0.35-2.83      |
| Headache  | 0.75       | 0.30-1.86      |
| Tinnitus, i.e., ringing in the ear                      | 1.71       | 0.61-4.81      |
| Skin sensation disorders and tingling                   | 1.69       | 0.61-4.76      |
| Change in the sense of smell and/or taste               | 1.91       | 0.61-5.96      |
| Prolonged general malaise following even light exertion | 0.39       | 0.14-1.06      |
| Cardiac arrhythmias or increased resting heart rate     | 0.68       | 0.28-1.64      |
| A feeling of pressure or discomfort in the chest        | 0.73       | 0.25-2.08      |
| Nausea, queasiness                                      | 1.69       | 0.16-19.18     |
| Rash  | 0.51       | 0.13-2.06      |
| Joint pain  | 1.15       | 0.66-2.00      |
| Muscle pain   | 0.72       | 0.34-1.51      |
| Persistent weekly cough                                 | 0.92       | 0.44-1.90      |
| Persistent weekly respiratory mucus                     | 1.16       | 0.66-2.07      |

| Supplementary Table 5. The effect of remdesivir plus standard of care compared to standard of |  |  |  |  |  |
|---|--|--|--|--|--|
| care only on recovery, stratified by the need of oxygen therapy during hospital admission     |  |  |  |  |  |
| Relative risk 95% confidence  |  |  |  |  |  |
| interval  |  |  |  |  |  |
| Recovery in patients without oxygen during admission 0.88 0.65-1.18                           |  |  |  |  |  |
| Recovery in patients with oxygen during admission 1.03 0.90-1.17                              |  |  |  |  |  |

## Code

Statistical analysis was performed using RStudio. Binary outcomes were treated in a similar fashion as mortality at one year as shown below. The groups were standard of care (0) and standard of care plus remdesivir (1). The Epi-package was used.

## library(Epi)

```
tmp.tab<-with(Mortality1y,t(table(Death=factor(Death1v,levels = 1:0,labels =
c("dead","alive")), Group=factor(Group,levels = 1:0) )))</pre>
```

## twoby2(exposure=(tmp.tab))

```
## 2 by 2 table analysis:
## -----
## Outcome : dead
## Comparing : 1 vs. 0
##
##
  dead alive P(dead) 95% conf. interval
## 1 5 109
               0.0439 0.0184 0.1011
## 0 5 89
               0.0532
                       0.0223 0.1215
##
##
                                95% conf. interval
##
             Relative Risk: 0.8246 0.2461 2.7628
                                 0.2291 2.9099
         Sample Odds Ratio: 0.8165
##
## Conditional MLE Odds Ratio: 0.8173
                                 0.1819 3.6725
    Probability difference: -0.0093 -0.0793 0.0532
##
##
##
             Exact P-value: 0.7575
##
        Asymptotic P-value: 0.7546
```